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SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE, PUBLISHING THE OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

Friday, August 28, 1908

CONTENTS

The Teaching of Mathematics to Students of	
Engineering:—	
From the Standpoint of the Professor of	
Engineering: Professor George F. Swain	
From the Standpoint of the Professor of	
Mathematics in the Engineering College:	
PROFESSOR CHAS. S. SLICHTER, PROFESSOR FREDERICK S. WOODS, PRESIDENT FRED W.	
McNair	257
The British Museum of Natural History	268
,	200
Lectures in Connection with the Interna-	
tional Congress of Tuberculosis	269
The International Fisheries Congress	270
Scientific Notes and News	270
University and Educational News	273
The Harvard Business School	273
Discussion and Correspondence:-	
Concerning Two Defectives: Professor W.	
W. CAMPBELL. Sores on Colts: L. S.	
Frierson	274
Scientific Books:—	
Washburn on "The Animal Mind": Pro-	
FESSOR JOHN B. WATSON. Butler's Hand-	
book of Minerals: Professor A. J. Moses.	
Holley and Ladd's Analysis of Mixed	
Paints, Color Pigments and Varnishes:	
Professor A. H. Gill	275
Special Articles:—	
Some Conditions affecting Volcanic Erup-	
tions: A. Perret. The Location of Embryo-	
forming Regions in the Egg: Professor T.	
H. Morgan	277

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THE TEACHING OF MATHEMATICS TO STUDENTS OF ENGINEERING 1

FROM THE STANDPOINT OF THE PROFESSOR
OF ENGINEERING

I feel that in this discussion we engineers occupy rather an unfortunate position, on account of the fact that we are compelled to assume the position of critics. The student comes to us from the teachers of mathematics, presumably equipped with a knowledge of that subject, and it becomes our duty to teach him subjects in which he makes use of this preparation, and to find out whether he has learned to use mathematics as a tool. However, I believe that only by friendly criticism can progress be made, and that every one ought to be willing to accept such criticism when given in the proper spirit. I had much rather be criticized than criticize others, and we teachers of engineering hope that we are always ready to receive suggestions, not only from other teachers, but from practising engineers.

I must first insist that for the engineer mathematics is to be regarded as a tool—not as something which is studied simply for the development of some mental powers, but for the ability which it ought to give a man to do something—to use the results and methods which he has been taught in solving the problems of his profession.

There has been a good deal of discussion in the past as to the value of mathematics simply as a means of mental training, without reference to its use, and perhaps most of us remember the paper by Sir William

¹ Continued from the issue of August 7.